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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/605,390	09/26/2003	Fangjun Jiang	81076421/201-1498 2389		
28395 BROOKS KUS	28395 7590 12/19/2007 BROOKS KUSHMAN P.C./FGTL			EXAMINER	
1000 TOWN CENTER			VANAMAN, FRANK BENNETT		
22ND FLOOR SOUTHFIELD, MI 48075-1238			ART UNIT	PAPER NUMBER	
			3618		
			NAW BATE	DELIVERY MODE	
			MAIL DATE	DELIVERY MODE	
			12/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Andien Comment	10/605,390	JIANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Frank Vanaman	3618				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulating the state of the second will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 31 Oc	ctoher 2007					
	· ·					
closed in accordance with the practice under E	•					
Disposition of Claims						
4)⊠ Claim(s) <u>1-4,6-16,23 and 25-27</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-4,6-16,23 and 25-27</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  1) Interview Summary (PTO-413)  Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>10/31/07</u> .	6)  Other:					

10/605,390 Art Unit: 3618

### **Continued Examination Under 37 CFR 1.114**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 31, 2007 has been entered.

### **Status of Claims**

- 2. Claims 1-4, 6-16, 23 and 25-27 are pending
- 3. Claims 5, 17-22 and 24 are canceled

#### **Information Disclosure Statement**

4. Applicant's Information Disclosure Statement, filed with the request for continued examination on Oct. 31, 2007, has been considered.

## Claim Rejections - 35 USC § 112

5. Claims 1-4, 6-16, 23 and 25-27 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In each of claims 1, 11 and 23, the claim recitation and appears to present a contradictory scope, in that each claim now relates limitations recited in an alternative fashion to parallel limitations recited in a cumulative fashion. In claim 1 at lines 6-9 (and also at lines 14-16); claim 11, lines 6-9 (also note lines 14-17) and claim 23, lines 6-10 (also note lines 15-17), the recitations present a plurality of conditions in an alternative manner, whereas in claim 1 at lines 10-13, claim 11, lines 10-13 and claim 23, lines 11-14 the plurality of previously recited conditions are compared in what appears to be a cumulative manner rather than an alternative manner. As such, the claim recitation appears contradictory, and the claim scope is not clear.

10/605,390 Art Unit: 3618

### Claims Not Rejected over the Prior Art

6. Claims 1-4, 6-16, 23 and 25-27 are not rejected as being anticipated by or unpatentable over the prior art, however they are not in condition for allowance at this time in view of the condition described in the claim rejections based on 35 USC §112, second paragraph section above.

### **Response to Comments**

Applicant's amendment has been entered in the application, and the comments filed therewith have been carefully considered. Applicant's assertion that the claims as now written are allowable is noted, however in view of the clarity issues set forth above the claims are not in condition for allowance.

Applicant's submission of the reference to Osawa in the most recent IDS is noted, particularly with regard to the explicit teaching in Osawa to base a control of engine start/stop on a catalytic converter temperature (S5, figure 2; S15, figure 3). This reference may prove pertinent to the claim recitations in view of the reference to Imada et al. (now cited below) which teaches that it is quite well known to determine a catalytic temperature condition based on a measured engine run-time (see paragraph 0047 in Imada et al., for example), providing the suggestion that one of ordinary skill in the art would be well aware an engine run-time may be substituted for catalytic converter temperature values.

As regards claims currently rejected under 35 USC §112, second paragraph, please note that rejections under 35 USC §102 and 103 should not be based upon considerable speculation as to the meaning of the terms employed and assumptions as to the scope of the claims when the claims are not definite. See In re Steele 305 F.2d 859, 862, 134 USPQ 292, 295 (CCPA 1962). When no reasonably definite meaning can be ascribed to certain terms in a claim, the subject matter does not become anticipated or obvious, but rather the claim becomes indefinite. See In re Wilson 424 F.2d 1382, 1385, 165 USPQ 494, 496 (CCPA 1970). As such the currently pending claims may be

Application/Control Number:

10/605,390

Art Unit: 3618

subject to prior art rejections not set forth herein upon the clarification of the claim language.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Imada et al. (US Pre Grant Publication 2002/0119080) teach that it is well known to relate catalytic converter temperature to engine run-time.

Any inquiry specifically concerning this communication or earlier communications from the examiner should be directed to F. Vanaman whose telephone number is 571-272-6701.

Any inquiries of a general nature or relating to the status of this application may be made through either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have guestions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A response to this action should be mailed to:

Mail Stop

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450,

Or faxed to:

PTO Central Fax: 571-273-8300

F. VANAMAN **Primary Examiner** 

Page 4

**Art Unit 3618.**